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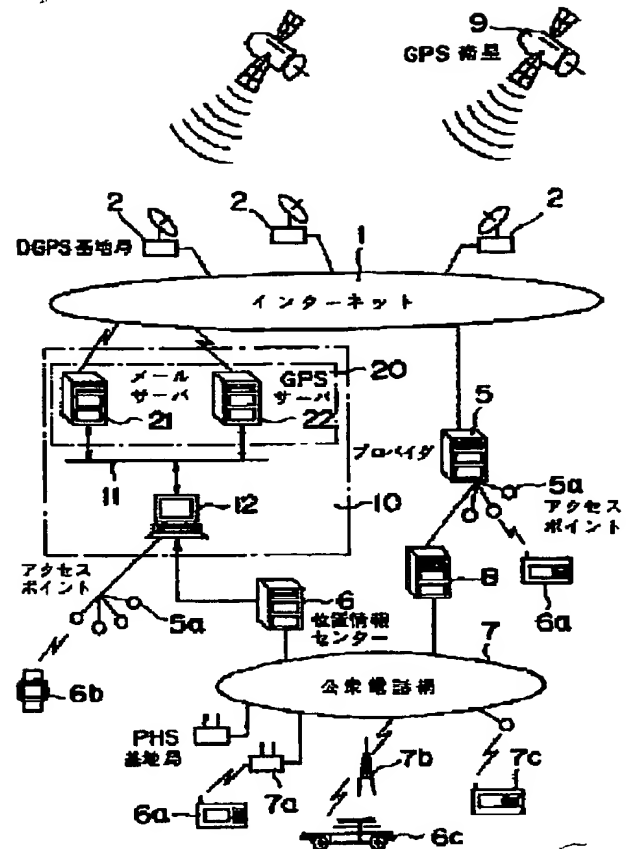
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TITLE : GPS RECEIVER AND ITS POSITIONING SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To enable a GPS(global positioning system) receiver to confirm its present location in an extremely short time by little changing the positioning algorithm of the receiver.

SOLUTION: A GPS server 22 collects navigation messages and data received at a DGPS base station 2 at every fixed period of time, corrects the navigation messages by calculating the position of a GPS satellite 9, and stores the corrected navigation messages. At the time of starting positioning, a GPS receiver 6 performs access to the server 22 through communication, receives the optimum corrected navigation message of the satellite 9, and acquires the corrected ephemeris data contained in the message. Then the receiver 6 performs positioning based on the correct ephemeris data.

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